## TMC2TI2

# analogue input cartridge, Modicon M221, 2 temperature inputs, IO extension





#### Main

Range of product	Modicon M221	
Product or component type	Analogue input cartridge	
Product compatibility	Modicon M221C	
Analogue input number	2	

#### Complementary

Analogue input type	Thermocouple - 2001000 °C with thermocouple J	
	Thermocouple - 2001300 °C with thermocouple K	
	Thermocouple 01760 °C with thermocouple R	
	Thermocouple 01760 °C with thermocouple S	
	Thermocouple 01820 °C with thermocouple B	
	Thermocouple - 200400 °C with thermocouple T	
	Thermocouple - 2001300 °C with thermocouple N	
	Thermocouple - 200800 °C with thermocouple E	
	Thermocouple 02315 °C with thermocouple C	
	Ni 100/Ni 1000 temperature probe - 60180 °C	
	Pt 100 temperature probe - 200850 °C	
	Pt 1000 temperature probe - 200600 °C	
Analogue input resolution	14 bits	
LSB value	0.1 °C	
Sampling duration	125 Ms, analogue input type: thermocouple	
	250 ms, analogue input type: temperature probe	
Absolute accuracy error	+/- 0.1 % of full scale at 25 °C for Pt 100/Pt 1000, Ni 100/ Ni 1000 temperature	
	probe	
	+/- 0.4 % of full scale at 25 °C for thermocouple K - 2000 °C	
	+/- 0.1 % of full scale at 25 °C for thermocouple K 01300 °C	
	+/- 0.4 % of full scale at 25 °C for thermocouple J - 2000 °C	
	+/- 0.1 % of full scale at 25 °C for thermocouple J 01000 °C	
	+/- 0.4 % of full scale at 25 °C for thermocouple E - 2000 °C	
	+/- 0.1 % of full scale at 25 °C for thermocouple E 0800 °C	
	+/- 0.4 % of full scale at 25 °C for thermocouple T - 2000 °C	
	+/- 0.1 % of full scale at 25 °C for thermocouple T 0400 °C +/- 0.4 % of full scale at 25 °C for thermocouple N - 2000 °C	
	+/- 0.1 % of full scale at 25 °C for thermocouple N 01300 °C	
	+/- 6 °C at 25 °C for thermocouple R, S 0200 °C	
	+/- 0.1 % of full scale at 25 °C for thermocouple R, S 2001760 °C	
	+/- 0.1 % of full scale at 25 °C for thermocouple C 02315 °C	
Temperature drift	+/- 0.02 %FS/°C	
Repeat accuracy	+/- 0.5 %FS	
Non-linearity	+/- 0.01 %FS	
Cross talk	<= 1 LSB	
Type of cable	Twisted shielded pairs cable	
Electrical connection	3 x 1.5 mm² 2 screw terminal blocks with pitch 3.81 mm adjustment for inputs	
Maximum cable distance between devices	Twisted shielded pairs cable: <30 m for input	
Insulation	Non-insulated between analogue input and internal logic	
Height	41 mm	
Depth	15 mm	

Width	35 mm
Net weight	0.015 kg
Input impedance	>= 1 MOhm

#### **Environment**

Immunity to microbreaks	10 ms	
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### **Packing Units**

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.5 cm
Package 1 Width	7.0 cm
Package 1 Length	4.6 cm
Package 1 Weight	20.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	75
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	3.324 kg
Unit Type of Package 3	P12
Number of Units in Package 3	2400
Package 3 Height	100 cm
Package 3 Width	125 cm
Package 3 Length	55 cm
Package 3 Weight	75 kg

#### Offer Sustainability

Green Premium product	
☑ REACh Declaration	
Pro-active compliance (Product out of EU RoHS legal scope) EPEU RoHS  Declaration	
Yes	
Yes	
<sup>™</sup> China RoHS Declaration	
₫Yes	
Product Environmental Profile	
☑ End Of Life Information	
Yes	
WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov	